

PHYSEOPARDY

Work

Fill in
The _____

Power

Energy

Solving
Problems

\$100

\$100

\$100

\$100

\$100

\$200

\$200

\$200

\$200

\$200

\$300

\$300

\$300

\$300

\$300

\$400

\$400

\$400

\$400

\$400

\$500

\$500

\$500

\$500

\$500

You have selected an area of the board not in play.

OOPS!

[Click here to go back to the main board](#)

Work - *\$100*

What are the units for measuring work?

ANSWER

Work - \$200

True or False: No matter which angle we used for the ramp to get the washer into our moving truck, the **force** needed **times** the **distance** on the ramp was always about the same amount of work.

ANSWER

Work - \$300

If you lift **two loads** up one flight of steps, how much work do you do compared to lifting **just one load** up one flight of steps?

- a. One quarter as much
- b. One half as much
- c. The same amount
- d. Twice as much
- e. Four times as much

ANSWER

Work - \$400

Leslie let go of an inflated balloon and it went flying sideways across the room. When she let it go, did Leslie do (physics) work on the balloon?

- a. Yes because the balloon moved.
- b. Yes because her force caused a displacement.
- c. No because letting go was not the direct cause of the displacement.
- d. No because the balloon went sideways instead of up or down.

ANSWER

Work - \$500

If $\text{Work} = \text{Force} \times \text{Distance}$,
then 1 Joule is the same thing as

1 _____

ANSWER

Fill in the _____ - \$100

Work is when a _____
causes a _____.

ANSWER

Fill in the _____ - \$200

Energy is the _____ to do
_____.

ANSWER

Fill in the _____ - \$300

Power is _____ over _____.

ANSWER

Fill in the _____ - \$400

Kinetic means _____ .
and potential means _____ .

ANSWER

Fill in the _____ - \$500

Conservation means the total energy
_____ the _____.

ANSWER

Power - \$100

What is the metric system unit of measurement for power?

ANSWER

Power - \$200

Energy is measured in

- a. Joules
- b. Watts
- c. Both Joules and Watts measure energy

ANSWER

Power - \$300

Which used more power?

- a. Riding the exercise bicycle (high effort)
- b. Doing 10 curls (quickly).
- c. They were about the same.

ANSWER

Power - \$400

You walk up a flight of stairs, and then you run up an identical flight of stairs. Both jobs require the same amount of work but different amounts of

- a. energy.
- b. power.
- c. both A and B
- d. none of the above

ANSWER

Power - \$500

Joe (average build) made it up a flight of stairs in 1.6 seconds. About how many horsepower is that?

- a. about 0.15 hp
- b. about 1.5 hp
- c. about 15 hp
- d. about 150 hp

ANSWER

Energy - \$100

Where on his track does the skateboarder have the most **potential** energy?

- a. At the highest point
- b. At the lowest point
- c. Half way between the highest and lowest
- d. None of the above

ANSWER

Energy - \$200

Energy is changed from one form to another with no total loss or gain.

- a. Sometimes true
- b. Always false
- c. Always true

ANSWER

Energy - \$300

Where on his track does the skateboarder have the most **kinetic** energy?

- a. At the highest point
- b. At the lowest point
- c. Half way between the highest and lowest
- d. None of the above

ANSWER

Energy - \$400

When baking soda is added to citric acid, the temperature of the mixture decreases. This is an example of what kind of energy conversion?

- a. Chemical potential to kinetic
- b. Thermal to chemical potential
- c. Elastic potential to thermal
- d. Kinetic to elastic potential

ANSWER

Energy - \$500

What are the 3 types of potential energy that we studied?

ANSWER

Solving Problems - \$100

How much power is required to do 50 J of work on an object in 5 seconds?

ANSWER

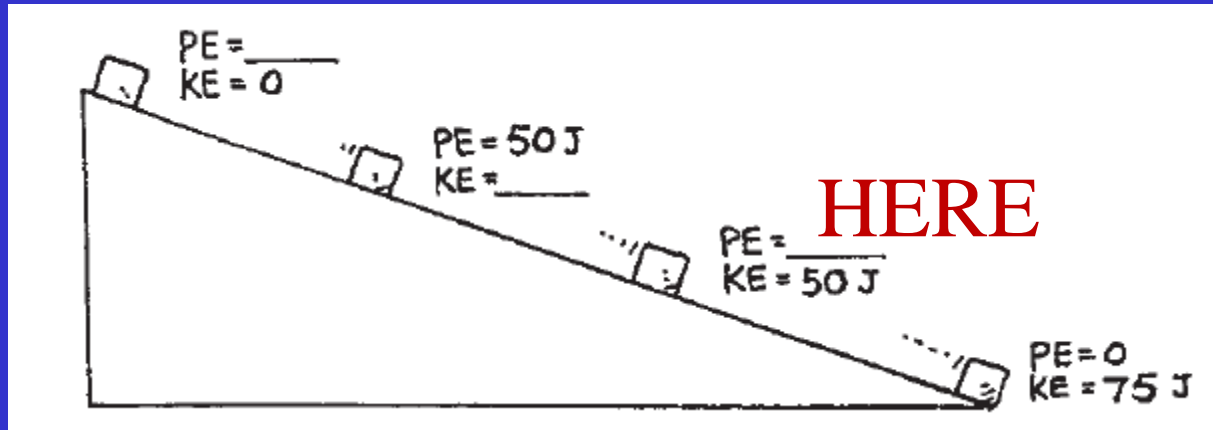
Solving Problems - \$200

Which requires more work: lifting a 80-kg sack vertically 2 meters or lifting 40-kg sack vertically 4 meters?

- a. Lifting the 80-kg sack
- b. Lifting the 40-kg sack
- c. Both require the same amount of work.

ANSWER

Solving Problems - \$300



How much potential energy does the block have at the spot marked “**HERE**”?

ANSWER

Solving Problems - \$400

A ball is moving at 4 m/s and has a momentum of 12 kg*m/s. What is the ball's mass?

ANSWER

Solving Problems - \$500

How much power is expended if you lift a 80 N crate 10 m in 2 seconds?

ANSWER

*****Answers*****

Work - *\$100*

Joules (J)

DONE

Work - \$200

True!

More force \rightarrow less distance

More distance \rightarrow less force

DONE

Work - \$300

If you lift **two loads** up one flight of steps, how much work do you do compared to lifting **just one load** up one flight of steps?

- a. One quarter as much
- b. One half as much
- c. The same amount
- d. Twice as much**
- e. Four times as much

DONE

Work - \$400

Leslie let go of an inflated balloon and it went flying sideways across the room. When she let it go, did Leslie do (physics) work on the balloon?

- a. Yes because the balloon moved.
- b. Yes because her force caused a displacement.
- c. **No because letting go was not the direct cause of the displacement.**
- d. No because the balloon went sideways instead of up or down.

DONE

Work - \$500

If $\text{Work} = \text{Force} \times \text{Distance}$,
then $1 \text{ Joule} = 1 \text{ Newton} \times 1 \text{ meter}$

$$1\text{J} = 1 \text{ N} * \text{m}$$

DONE

Fill in the _____ - \$100

“force”

“displacement”

DONE

Fill in the _____ - \$200

“ability”

“work”

DONE

Fill in the _____ - \$300

“work”

“time”

DONE

Fill in the _____ - \$400

“moving”

“stored,”

“ready,” or

“waiting”

DONE

Fill in the _____ - \$500

“stays”

the “same”

DONE

Power - *\$100*

Watts (W)

DONE

Power - \$200

Energy is measured in

a. Joules

b. Watts

c. Both Joules and Watts measure
energy

Watts measure how much TIME it
takes to use the Joules of energy

DONE

Power - \$300

Which used more power?

- a. **Riding the exercise bicycle (high effort)**
- b. Doing 10 curls (quickly).
- c. They were about the same.

DONE

Power - \$400

You walk up a flight of stairs, and then you run up an identical flight of stairs. Both jobs require the same amount of work but different amounts of

- a. energy.
- b. power.**
- c. both A and B
- d. none of the above

DONE

Power - \$500

Joe (average build) made it up a flight of stairs in 1.6 seconds. About how many horsepower is that?

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- b. about 1.5 hp**
- c. about 15 hp
- d. about 150 hp

DONE

Energy - \$100

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- a. **At the highest point**
- b. At the lowest point
- c. Half way between the highest and lowest
- d. None of the above

DONE

Energy - \$200

Energy is changed from one form to another with no net loss or gain.

- a. Sometimes true
- b. Always false
- c. **Always true**

DONE

Energy - \$300

Where on his track does the skateboarder have the most **kinetic** energy?

- a. At the highest point
- b. At the lowest point**
- c. Half way between the highest and lowest
- d. None of the above

DONE

Energy - \$400

When baking soda is added to citric acid, the temperature of the mixture decreases. This is an example of what kind of energy conversion?

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- b. Thermal to chemical potential**
- c. Elastic potential to thermal
- d. Kinetic to elastic potential

DONE

Energy - \$500

Gravitational Potential Energy

Elastic Potential Energy

Chemical Energy

all ways to STORE energy

DONE

Solving Problems - *\$100*

10 W

DONE

Solving Problems - \$200

Which requires more work: lifting a 80-kg sack vertically 2 meters or lifting 40-kg sack vertically 4 meters?

- a. Lifting the 80-kg sack
- b. Lifting the 40-kg sack
- c. **Both require the same amount of work.**

DONE

Solving Problems - *\$300*

25 J

DONE

Solving Problems - \$400

3 kg

DONE

Solving Problems - \$500

400 W

DONE

**DAILY
DOUBLE**

CONTINUE

**DAILY
DOUBLE**

CONTINUE

Final Jeopardy

The Names of the Both Vice-Presidential Candidates.

Answer



Final Jeopardy

Election: 2008

Continue

Final Jeopardy

Answer

Question:

Who are Gov. Sarah
Palin and Sen.
Joseph Biden, Jr.

Directions for Changing the Game

- To change the questions and answers, just type over the problems...Use the “replace” feature to change the categories easily
- The daily doubles were originally set to category #4 for \$500 and category #2 for \$300
- To change the daily doubles you must
 - 1. Change the hyperlink for the links on the main board to go to the appropriate question, therefore bypassing the daily double slide
 - 2. Change the hyperlink on the continue button on each daily double slide to go to the new question.